SEQUENCE LISTING

<110> Blaschuk, Orest W.
Michaud, Stephanie D.

<120> COMPOUNDS AND METHODS FOR MODULATING
FUNCTIONS OF NONCLASSICAL CADHERINS

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<141> 2003-11-14

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atypical cadherins

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atypical cadherins

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atypical cadherins

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atypical cadherins

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cadherin Trp-containing CAR sequence

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1 5

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1 5

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<220>
<223> Exemplary cyclic peptide

<400> 1295
Glu Ala Trp Ile Thr Ala Lys
1 5

<210> 1296
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1296
Glu Ala Trp Ile Thr Ala Pro Lys
1 5

<210> 1297
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1297
Glu Ala Trp Ile Thr Ala Pro Val Lys
 1   5

<210> 1298
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1298
Glu Ala Trp Ile Thr Ala Pro Val Ala Lys
 1   5   10

<210> 1299
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1299
Glu Ala Trp Ile Thr Ala Pro Val Ala Leu Lys
 1   5   10

<210> 1300
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1300
Glu Trp Ile Thr Lys
 1   5

<210> 1301
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1301
Glu Trp Ile Thr Ala Lys
1 5

<210> 1302
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1302
Glu Trp Ile Thr Ala Pro Lys
1 5

<210> 1303
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1303
Glu Trp Ile Thr Ala Pro Val Lys
1 5

<210> 1304
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1304
Glu Trp Ile Thr Ala Pro Val Ala Lys
1 5

<210> 1305
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1305

Glu Trp Ile Thr Ala Pro Val Ala Leu Lys
1   5   10

<210> 1306
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 1306
Tyr Ile Gly Ser Arg
1   5

<210> 1307
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 1307
Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
1   5   10

<210> 1308
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 1308
Ser Phe Thr Ile Asp Pro Lys Ser Gly
1   5

<210> 1309
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Preferred CAR sequence for inclusion with a modulating agent

<400> 1309
Leu Tyr His Tyr
 1

<210> 1310
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Claudin CAR sequence comprising at least four consecutive amino acids present within a claudin region

<221> VARIANT
<222> 2
<223> Xaa = Lys or Arg

<221> VARIANT
<222> 3
<223> Xaa = any amino acid

<221> VARIANT
<222> 4
<223> Xaa = any amino acid

<221> VARIANT
<222> 5
<223> Xaa = Ser or Ala

<221> VARIANT
<222> 6
<223> Xaa = Tyr or Phe

<221> VARIANT
<222> 7
<223> Xaa = any amino acid

<400> 1310
Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly
 1   5

<210> 1311
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Atypical cadherin CAR sequence comprising at least three consecutive amino acids present within an atypical cadherin region

<221> VARIANT
<222> 1,3
<223> Xaa = any amino acid

<221> VARIANT
<222> 4
<223> Xaa = Ile, Leu or Val

<221> VARIANT
<222> 5
<223> Xaa = Asp, Asn or Glu

<221> VARIANT
<222> 6,7
<223> Xaa = any amino acid

<221> VARIANT
<222> 8
<223> Xaa = Ser, Thr or Asn

<400> 1311
Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa Gly
1 5

<210> 1312
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative claudin CAR sequence

<400> 1312
Ile Tyr Ser Tyr
1

<210> 1313
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative claudin CAR sequence

<400> 1313
Thr Ser Ser Tyr
1

<210> 1314
<211> 4

<212> PRT
<213> Artificial Sequence

<220>
<223> Representative claudin CAR sequence

<400> 1314
Val Thr Ala Phe
1

<210> 1315
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative claudin CAR sequence

<400> 1315
Val Ser Ala Phe
1

<210> 1316
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1316
Cys Gly Trp Val Met Asn Gln Gly Trp Val Met Asn Gln Cys
1 5 10

<210> 1317
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1317
Cys Arg Trp Ala Pro Ile Pro Arg Trp Ala Pro Ile Pro Cys
1 5 10

<210> 1318
<211> 14

<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1318
Cys Gly Trp Val Met Asn Gln Gln Asn Met Val Trp Gly Cys
1 5 10

<210> 1319
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1319
Cys Gln Asn Met Val Trp Gly Gly Trp Val Met Asn Gln Cys
1 5 10

<210> 1320
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1320
Cys Arg Trp Ala Pro Ile Pro Pro Ile Pro Ala Trp Arg Cys
1 5 10

<210> 1321
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing CAR sequence in the cyclic peptides
that may be linked in tandem.

<400> 1321
Cys Pro Ile Pro Ala Trp Arg Arg Trp Ala Pro Ile Pro Cys
1 5 10

<210> 1322
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1322
Cys Gly Trp Val Cys
1 5

<210> 1323
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1323
Cys Gly Trp Val Trp Asn Gln Cys
1 5

<210> 1324
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1324
Cys Gly Trp Val Trp Asn Cys
1 5

<210> 1325
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1325
Cys Arg Gly Trp Val Cys
1 5

<210> 1326
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1326
Cys Arg Gly Trp Val Trp Cys
1 5

<210> 1327
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1327
Cys Gly Trp Val Cys Asn
1 5

<210> 1328
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1328
Cys Gly Trp Val
1

<210> 1329
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1329
Cys Arg Gly Trp Val Trp Asn Gln Phe Cys
1 5 10

<210> 1330
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1330
Cys Arg Gly Trp Val Trp Asn Gln Phe Phe Cys
1 5 10

<210> 1331
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1331
Ile Xaa Gly Trp Val Trp Asn Gln Cys Glu
1 5 10

<210> 1332
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<221> MOD_RES
<222> 2
<223> Xaa = beta,beta -pentamethylene cysteine

<400> 1332
Ile Xaa Gly Trp Val Trp Asn Gln Cys
1 5

<210> 1333
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1333
Gly Trp Val Trp Asn Gln Pro Cys
1 5

<210> 1334
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1334
Cys Arg Trp Ala Pro Cys
1 5

<210> 1335
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1335
Cys Arg Trp Ala Pro Ile Pro Cys
1 5

<210> 1336
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1336
Cys Arg Trp Ala Pro Ile Cys
1 5

<210> 1337
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1337
Cys Arg Trp Ala Pro Ile Pro Cys Cys
1 5

<210> 1338
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1338
Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys Met
1   5   10

<210> 1339
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1339
Cys Arg Trp Ala Cys Asn
1   5

<210> 1340
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<221> MOD_RES
<222> 5
<223> Xaa = penicillamine

<400> 1340
Cys Arg Trp Ala Xaa
1   5

<210> 1341
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1341
Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys
1   5   10

<210> 1342
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1342
Cys Arg Trp Ala Pro Ile Pro Cys Ser Met Cys
1 5 10

<210> 1343
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1343
Ile Xaa Arg Trp Ala Pro Ile Pro Cys Glu
1 5 10

<210> 1344
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-pentamethylene cysteine

<400> 1344
Ile Xaa Arg Trp Ala Pro Ile Pro Cys
1 5

<210> 1345
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1345
Arg Trp Ala Pro Ile Pro Cys Cys
 1   5

<210> 1346
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1346
Lys Arg Trp Ala Pro Ile Pro Asp
 1   5

<210> 1347
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization process

<400> 1347
Glu Asp Ala Cys
 1

<210> 1348
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization process

<400> 1348
Asp Cys Cys Ile
 1

<210> 1349
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Modulating agent

<400> 1349
Ser His Ala Val Ser Ser
 1   5

<210> 1350
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Modulating agent

<400> 1350
Ala His Ala Val Asp Ile
 1   5

<210> 1351
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> N-cadherin CAR sequence

<400> 1351
Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
 1   5   10   15

<210> 1352
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Occludin CAR sequence

<400> 1352
Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
 1   5   10   15
Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
            20   25   30
Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
        35   40   45

<210> 1353
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1353
Gly Trp Val Trp Asn Gln
 1   5

<210> 1354
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1354
Asp Trp Ile Trp Asn Gln
 1   5

<210> 1355
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1355
Ser Trp Met Trp Asn Gln
 1   5

<210> 1356
<211> 4
<212> PRT
<213> qArtificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1356
Trp Val Asn Gln
 1

<210> 1357
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1357
Gly Trp Met Trp Asn Gln
1 5

<210> 1358
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1358
Asp Val Asn Glu
1

<210> 1359
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1359
Asp Ile Asn Asp Asn
1 5

<210> 1360
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1360
Asp Val Asn Asp Asn
1 5

<210> 1361
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1361

Val Asp Phe Glu
1

<210> 1362
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1362
Asp Ala Asp Glu
1

<210> 1363
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1363
Asp Val Asp Glu
1

<210> 1364
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1364
Asp Glu Asn Asp Asn
1 5

<210> 1365
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1365
Asp Val Asn Asp Glu
1 5

<210> 1366
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1366
Leu Asn Tyr Glu
 1

<210> 1367
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1367
Asp Gln Asn Asp Asn
 1   5

<210> 1368
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1368
Asp Thr Asn Glu
 1

<210> 1369
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1369
Glu Val Asn Glu
 1

<210> 1370
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1370
Asp Ile Asn Asp
 1

<210> 1371
<211> 110
<212> PRT
<213> unknown

<220>
<223> Obcad sequence

<400> 1371
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Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu
 1               5                  10                  15
Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
            20                  25                  30
Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
        35                  40                  45
Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
    50                  55                  60
Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln
65                  70                  75                  80
Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe
                85                  90                  95
Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100                 105                 110
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<210> 1372
<211> 108
<212> PRT
<213> Unknown

<220>
<223> Cad5 sequence

<400> 1372
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Arg Gln Lys Arg Asp Trp Ile Trp Asn Gln Met His Ile Asp Glu Glu
 1               5                  10                  15
Lys Asn Thr Ser Leu Pro His His Val Gly Lys Ile Lys Ser Ser Val
            20                  25                  30
Ser Arg Lys Asn Ala Lys Tyr Leu Leu Lys Gly Glu Tyr Val Gly Lys
        35                  40                  45
Val Phe Arg Val Asp Ala Glu Thr Gly Asp Val Phe Ala Ile Glu Arg
```

```
    50                  55                  60
Leu Asp Arg Glu Asn Ile Ser Glu Tyr His Leu Thr Ala Val Ile Val
65                  70                  75                  80
Asp Lys Asp Thr Gly Glu Asn Leu Glu Thr Pro Ser Ser Phe Thr Ile
                85                  90                  95
Lys Val His Asp Val Asn Asp Asn Trp Pro Val Phe
            100                 105


<210> 1373
<211> 110
<212> PRT
<213> unknown

<220>
<223> Cad6 sequence

<400> 1373
Arg Ser Lys Arg Ser Trp Met Trp Asn Gln Phe Phe Leu Leu Glu Glu
 1               5                  10                  15
Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
            20                  25                  30
Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
        35                  40                  45
Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
    50                  55                  60
Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
65                  70                  75                  80
Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
                85                  90                  95
Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
            100                 105                 110


<210> 1374
<211> 110
<212> PRT
<213> unknown

<220>
<223> Cad7 sequence

<400> 1374
Arg Thr Lys Arg Ser Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
 1               5                  10                  15
Tyr Met Gly Ser Asp Pro Leu Tyr Val Gly Lys Leu His Ser Asp Val
            20                  25                  30
Asp Lys Gly Asp Gly Ser Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
        35                  40                  45
Ser Ser Ile Phe Ile Ile Asp Glu Asn Thr Gly Asp Ile His Ala Thr
    50                  55                  60
Lys Arg Leu Asp Arg Glu Glu Gln Ala Tyr Tyr Thr Leu Arg Ala Gln
65                  70                  75                  80
Ala His Asp Arg Leu Thr Asn Lys Pro Val Glu Pro Glu Ser Glu Phe
```

```
                85                  90                  95
Val Ile Lys Ile Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
            100                 105                 110


&lt;210&gt; 1375
&lt;211&gt; 110
&lt;212&gt; PRT
&lt;213&gt; unknown

&lt;220&gt;
&lt;223&gt; Cad8 sequence

&lt;400&gt; 1375
Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Met Phe Val Leu Glu Glu
 1               5                  10                  15
Phe Ser Gly Pro Glu Pro Ile Leu Val Gly Arg Leu His Thr Asp Leu
            20                  25                  30
Asp Pro Gly Ser Lys Lys Ile Lys Tyr Ile Leu Ser Gly Asp Gly Ala
        35                  40                  45
Gly Thr Ile Phe Gln Ile Asn Asp Val Thr Gly Asp Ile His Ala Ile
    50                  55                  60
Lys Arg Leu Asp Arg Glu Glu Lys Ala Glu Tyr Thr Leu Thr Ala Gln
65                  70                  75                  80
Ala Val Asp Trp Glu Thr Ser Lys Pro Leu Glu Pro Pro Ser Glu Phe
                85                  90                  95
Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Glu Phe
            100                 105                 110


&lt;210&gt; 1376
&lt;211&gt; 110
&lt;212&gt; PRT
&lt;213&gt; unknown

&lt;220&gt;
&lt;223&gt; Cad12 sequence

&lt;400&gt; 1376
Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
 1               5                  10                  15
Tyr Val Gly Ser Glu Pro Gln Tyr Val Gly Lys Leu His Ser Asp Leu
            20                  25                  30
Asp Lys Gly Glu Gly Thr Val Lys Tyr Thr Leu Ser Gly Asp Gly Ala
        35                  40                  45
Gly Thr Val Phe Thr Ile Asp Glu Thr Thr Gly Asp Ile His Ala Ile
    50                  55                  60
Arg Ser Leu Asp Arg Glu Glu Lys Pro Phe Tyr Thr Leu Arg Ala Gln
65                  70                  75                  80
Ala Val Asp Ile Glu Thr Arg Lys Pro Leu Glu Pro Glu Ser Glu Phe
                85                  90                  95
Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
            100                 105                 110
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<210> 1377
<211> 110
<212> PRT
<213> unknown

<220>
<223> Cad14 sequence

<400> 1377
Arg Pro Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
1   5   10   15
His Met Gly Pro Asp Pro Gln Tyr Val Gly Lys Leu His Ser Asn Ser
            20   25   30
Asp Lys Gly Asp Gly Ser Val Lys Tyr Ile Leu Thr Gly Glu Gly Ala
        35   40   45
Gly Thr Ile Phe Ile Ile Asp Asp Thr Thr Gly Asp Ile His Ser Thr
    50   55   60
Lys Ser Leu Asp Arg Glu Gln Lys Thr His Tyr Val Leu His Ala Gln
65   70   75   80
Ala Ile Asp Arg Arg Thr Asn Lys Pro Leu Glu Pro Glu Ser Glu Phe
                85   90   95
Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Lys Phe
            100   105   110

<210> 1378
<211> 110
<212> PRT
<213> unknown

<220>
<223> PBcad sequence

<400> 1378
Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Val Glu Glu
1   5   10   15
Tyr Thr Gly Thr Glu Pro Leu Tyr Val Gly Lys Ile His Ser Asp Ser
            20   25   30
Asp Glu Gly Asp Gly Thr Ile Lys Tyr Thr Ile Ser Gly Glu Gly Ala
        35   40   45
Gly Thr Ile Phe Leu Ile Asp Glu Leu Thr Gly Asp Ile His Ala Thr
    50   55   60
Glu Arg Leu Asp Arg Glu Gln Lys Thr Phe Tyr Thr Leu Arg Ala Gln
65   70   75   80
Ala Arg Asp Arg Ala Thr Asn Arg Leu Leu Glu Pro Glu Ser Glu Phe
                85   90   95
Ile Ile Lys Val Gln Asp Ile Asn Asp Ser Glu Pro Arg Phe
            100   105   110

<210> 1379
<211> 106
<212> PRT

<213> Homo sapiens

<400> 1379
Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
1   5   10   15
Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
            20   25   30
Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
        35   40   45
Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
    50   55   60
Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
65   70   75   80
Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
                85   90   95
Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100   105

<210> 1380
<211> 106
<212> PRT
<213> Mus musculus

<400> 1380
Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
1   5   10   15
Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
            20   25   30
Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
        35   40   45
Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
    50   55   60
Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
65   70   75   80
Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
                85   90   95
Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100   105

<210> 1381
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1381
Val Asp Tyr Glu
1

<210> 1382
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1382
Asp Asp Asn Asp Asn
1 5

<210> 1383
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1383
Asp Tyr Asn Asp Asn
1 5

<210> 1384
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1384
Asp Ser Asn Asp Asn
1 5

<210> 1385
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1385
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
20 25 30
Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
35 40 45
Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
50 55 60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala

```
65                  70                  75                  80
Leu Asn Ser Met Gly Gln Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
                85                  90                  95
Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
            100                 105
```

<210> 1386
<211> 108
<212> PRT
<213> Bos tarus

<400> 1386

```
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1               5                  10                  15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
            20                  25                  30
Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
        35                  40                  45
Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
    50                  55                  60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
65                  70                  75                  80
Leu Asn Ser Leu Gly Gln Asp Leu Glu Lys Pro Leu Glu Leu Arg Val
                85                  90                  95
Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
            100                 105
```

<210> 1387
<211> 110
<212> PRT
<213> Homo sapiens

<400> 1387

```
Ala Trp Ile Thr Ala Pro Val Ala Leu Arg Glu Gly Glu Asp Leu Ser
 1               5                  10                  15
Lys Lys Asn Pro Ile Ala Lys Ile His Ser Asp Leu Ala Glu Glu Arg
            20                  25                  30
Gly Leu Lys Ile Thr Tyr Lys Tyr Thr Gly Lys Gly Ile Thr Glu Pro
        35                  40                  45
Pro Phe Gly Ile Phe Val Phe Asn Lys Asp Thr Gly Glu Leu Asn Val
    50                  55                  60
Thr Ser Ile Leu Asp Arg Glu Glu Thr Pro Phe Phe Leu Leu Thr Gly
65                  70                  75                  80
Tyr Ala Leu Asp Ala Arg Gly Asn Asn Val Glu Lys Pro Leu Glu Leu
                85                  90                  95
Arg Ile Lys Val Leu Asp Ile Asn Asp Asn Glu Pro Val Phe
            100                 105                 110
```

<210> 1388
<211> 108
<212> PRT

<213> Homo sapiens

<400> 1388
Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr Gln
20 25 30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
35 40 45
Gly Ile Phe Val Val Asp Lys Asn Thr Gly Asp Ile Asn Ile Thr Ala
50 55 60
Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
65 70 75 80
Leu Asn Ala Gln Gly Leu Asp Val Glu Lys Pro Leu Ile Leu Thr Val
85 90 95
Lys Ile Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
100 105

<210> 1389
<211> 108
<212> PRT
<213> Mus musculus

<400> 1389
Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Arg Glu Asp Asn Ser
1 5 10 15
Arg Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Phe Gln Lys Asn Gln
20 25 30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
35 40 45
Gly Ile Phe Val Val Asp Pro Asn Asn Gly Asp Ile Asn Ile Thr Ala
50 55 60
Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
65 70 75 80
Leu Asn Ala Leu Gly Gln Asp Val Glu Arg Pro Leu Ile Leu Thr Val
85 90 95
Lys Ile Leu Asp Val Asn Asp Asn Pro Pro Ile Phe
100 105

<210> 1390
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1390
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Lys Ile Arg Ser Asp Cys Glu Ser Asn Gln
20 25 30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Arg Pro Pro Tyr
35 40 45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser

```
    50                  55                  60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile Tyr Cys Arg Ala
65                  70                  75                  80
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
                85                  90                  95
Lys Val Met Asp Ile Asn Asp Asn Ala Pro Val Phe
            100                 105


<210> 1391
<211> 108
<212> PRT
<213> Mus musculus

<400> 1391
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1               5                  10                  15
Lys Arg Asn Pro Ile Ala Arg Ile Arg Ser Asp Cys Glu Val Ser Gln
            20                  25                  30
Arg Ile Thr Tyr Arg Ile Ser Gly Ala Gly Ile Asp Arg Pro Pro Tyr
        35                  40                  45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
    50                  55                  60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile His Cys Arg Ala
65                  70                  75                  80
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
                85                  90                  95
Lys Val Met Asp Val Asn Asp Asn Pro Pro Val Phe
            100                 105


<210> 1392
<211> 108
<212> PRT
<213> Mus musculus

<400> 1392
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1               5                  10                  15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
            20                  25                  30
Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
        35                  40                  45
Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
    50                  55                  60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
65                  70                  75                  80
Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
                85                  90                  95
Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
            100                 105


<210> 1393
```

<211> 108
<212> PRT
<213> Mus musculus

<400> 1393
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1   5   10   15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
            20   25   30
Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
        35   40   45
Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
    50   55   60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
65   70   75   80
Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
                85   90   95
Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
            100   105

<210> 1394
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1394
Arg Trp Ala Pro Ile Pro Ala Ser Leu Met Glu Asn Ser Leu Gly Pro
1   5   10   15
Phe Pro Gln His Val Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
            20   25   30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
        35   40   45
Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
    50   55   60
Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe Ala Leu Tyr Gly Tyr Ala
65   70   75   80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Ile Ile
                85   90   95
Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
            100   105

<210> 1395
<211> 108
<212> PRT
<213> Mus musculus

<400> 1395
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
1   5   10   15
Phe Pro Gln His Ile Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
            20   25   30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Tyr

```
        35                  40                  45
Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Tyr Cys Thr Arg
    50                  55                  60
Ser Ile Asp Arg Glu Gln Tyr Asp Gln Phe Leu Val Tyr Gly Tyr Ala
65                  70                  75                  80
Thr Thr Ala Asp Gly Tyr Ala Pro Asp Tyr Pro Leu Pro Leu Leu Phe
                85                  90                  95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
            100                 105


<210> 1396
<211> 108
<212> PRT
<213> Bos tarus

<400> 1396
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
 1               5                  10                  15
Phe Pro Gln His Val Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
            20                  25                  30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
        35                  40                  45
Asn Leu Phe Phe Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
    50                  55                  60
Ser Ile Asp Arg Glu Gln Tyr Gln Glu Phe Pro Ile Tyr Ala Tyr Ala
65                  70                  75                  80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Val Phe
                85                  90                  95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
            100                 105


<210> 1397
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1397
Arg Trp Ala Pro Ile Pro Cys Ser Met Leu Glu Asn Ser Leu Gly Pro
 1               5                  10                  15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Thr Ala Gln Asn Tyr
            20                  25                  30
Thr Ile Tyr Tyr Ser Ile Arg Gly Pro Gly Val Asp Gln Glu Pro Arg
        35                  40                  45
Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
    50                  55                  60
Pro Val Asp Arg Glu Gln Tyr Glu Ser Phe Glu Ile Ile Ala Phe Ala
65                  70                  75                  80
Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Ile Ile
                85                  90                  95
Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
            100                 105
```

<210> 1398
<211> 108
<212> PRT
<213> Canis familiaris

<400> 1398
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1   5   10   15
Phe Pro Leu Phe Leu Gln Gln Ile Gln Ser Asp Thr Ala Gln Asn Tyr
            20   25   30
Thr Ile Phe Tyr Ser Ile Arg Gly Pro Gly Val Asp Arg Glu Pro Lys
        35   40   45
Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
    50   55   60
Pro Val Asp Arg Glu Glu Tyr Glu Ser Phe Glu Leu Ile Ala Phe Ala
65   70   75   80
Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Val Ile
                85   90   95
Arg Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
            100   105

<210> 1399
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1399
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1   5   10   15
Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
            20   25   30
Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
        35   40   45
Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
    50   55   60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65   70   75   80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
                85   90   95
Arg Val Glu Asp Glu Asn Asp Asn His Pro Val Phe
            100   105

<210> 1400
<211> 108
<212> PRT
<213> Mus musculus

<400> 1400
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1   5   10   15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr

20 25 30
Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Ala Asp Gln Glu Pro Leu
35 40 45
Asn Trp Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
50 55 60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65 70 75 80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
85 90 95
Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Leu Phe
100 105

<210> 1401
<211> 108
<212> PRT
<213> Bos tarus

<400> 1401
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1 5 10 15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
20 25 30
Thr Ile Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
35 40 45
Asn Leu Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Gln
50 55 60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65 70 75 80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Phe Pro Leu Pro Leu Pro Ile
85 90 95
Arg Val Glu Asp Glu Asn Asp Asn His Pro Ile Phe
100 105

<210> 1402
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1402
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1 5 10 15
Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
20 25 30
Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
35 40 45
Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
50 55 60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65 70 75 80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
85 90 95
Arg Val Glu Asp Glu Asn Asp Asn His Pro Val Phe
100 105